DELL EMC VXBLOCK SYSTEMS

The industry-leading* CI that delivers turnkey SAN-based solutions for mission-critical workloads

Powering the modern data center
Dell EMC Converged Infrastructure (CI) has helped thousands of global enterprise customers transform their IT environments to become more agile, reliable, and cost-effective. Dell EMC Converged Infrastructure systems integrate enterprise-class technologies—including compute, network, storage, virtualization, and management—into one engineered system that is engineered, manufactured, managed, supported, and sustained as one. These systems eliminate the slow, complex, and costly process of procuring, assembling, and the ongoing maintenance of traditional in-house integration approaches.

Dell EMC Converged Infrastructure overview
Dell EMC VxBlock Systems deliver simple IT solutions from general-purpose workloads to mission-critical use cases, significantly reducing costs, time-to-deploy, and ongoing management/maintenance time, enabling your IT staff to spend more time focused on business outcomes and on new initiatives than on managing the IT infrastructure and keeping the lights on.

Unsurpassed simplicity
VxBlock Systems bring together leading technologies from Dell EMC, Cisco, and VMware. All system elements are pre-integrated, pre-configured, then tested and validated before shipping. Seamless integration allows you to operate and manage your system as a single product, rather than as individual, siloed components. Ongoing, component-level testing, and qualification result in drastically simplified updates and maintenances. The end result is significant time and resource savings throughout the systems’ life cycle.

Fastest and easiest way to modernize your infrastructure
VxBlock Systems are one of the fastest and easiest ways to modernize a data center with all-flash storage, including Dell EMC Unity, XtremIO, and VMAX options. All-flash VxBlock Systems are ideal for mixed-workload consolidation, applications that require extreme performance and scale, mission-critical

IDC White Paper: Modernizing Mission-Critical Applications with VxBlock

ESSENTIALS
- Simplified IT
- Improved business agility
- Quicker time-to-value
- Less time to maintain
- Increased business responsiveness

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applications, and whenever you are looking for the highest storage density at the lowest operational total cost of ownership (TCO).

Streamlined deployments
With multivendor solutions, considerable time and resources are devoted to sourcing, integrating, testing, validating, and ongoing maintenance. VxBlock Systems are factory-integrated and can be delivered within 60 days of order with an almost immediate time-to-value thereafter.

System sustainability
Rely on the Dell EMC Release Certification Matrix (RCM) to streamline software release planning and ongoing configuration management across all converged infrastructure components. Dell EMC quality assurance tests for interoperability of hardware and software ensures that your system and data center experience dramatically reduced downtime due to updates and scheduled maintenance. This unique experience spans across all VxBlock Systems for an unmatched customer experience.

Converged System Management
Dell EMC Vision Intelligent Operations is health and life cycle management software at its best. Its intelligence, automation, and visualization facilitate standardized, repeatable IT processes—making it easier to keep your data center/hybrid-cloud environment healthy, stable, optimized, and secure. The software manages compute, network, storage, and virtualization components together as a single system and multiple systems as a single pool of resources. Functions include health, RCM compliance, and security compliance management.

Simple to scale and easy to share resources
Dell EMC Vsacle Architecture provides the most flexible and optimal way to scale out data centers and share resources across converged infrastructure systems, hyper-converged systems, and non-converged systems. Through the Dell EMC Vsacle Fabric, a scalable spine-leaf network fabric, you can connect multiple systems and modular components to create a shared pool of resources.

Single-call support
Dell EMC delivers fully integrated, 24/7 support with a single phone call. There’s never any finger-pointing between vendors, and you can always rely on our fully cross-trained team for a fast resolution to any problem.

Integrated data protection
For reliable backup and recovery, your converged systems are built with data protection optimized for your specific needs. Dell EMC offers the most advanced data deduplication, replication, and data protection technologies for achieving your Recover Point Objective (RPO) and Recover Time Objective (RTO) requirements.

Security and compliance
VxBlock Systems are engineered to ensure the highest levels of security and are built to simplify complicated compliance requirements. All components and software are tested and validated to eliminate security vulnerabilities and to enhance performance and integrity. In addition, Vision software automates the inspection and other time-consuming aspects of system security and software compliance policy, greatly reducing the time needed to pinpoint and eliminate security vulnerabilities.
VxBlock Systems
VxBlock Systems provide a wide range of solutions to meet your requirements for size, performance, and scalability. VxBlock Systems are built with industry-leading compute and networking from Cisco, storage from Dell EMC with Dell EMC Unity, XtremIO, and VMAX, and virtual distributed switching from VMware.

The VxBlock Systems portfolio

Midrange scale for general-purpose, file, and block workloads
The VxBlock System 350 is agile and highly scalable. It’s a unified, converged infrastructure that is designed for general-purpose mixed workloads. These systems can be easily tailored to meet specific workload or SLA requirements like VDI, Microsoft Exchange, Oracle, and SAP while minimizing risks and costs. Available with powerful Dell EMC Unity all-flash (and hybrid-flash) storage options, these are perfect for general-purpose mixed workloads.

All-Flash Converged Infrastructures targeting data reduction and copy-friendly workflows
The VxBlock System 540 is optimized for data reduction and copy-friendly workflows, such as Virtual Desktop Infrastructure (VDI) and test and development environments. Leveraging Dell EMC XtremIO storage, with inline efficiencies, these systems deliver scale-out performance at ultralow latency.

The most advanced data services in a Converged Infrastructure
The VxBlock System 740 is the industry’s most advanced intelligent converged system with unmatched performance, scalability, and availability for the most demanding mission-critical applications. Dell EMC VMAX all-flash storage delivers multidimensional scale, high IOPS for extreme levels of performance with low latency. It is ideal for large-scale mixed workload consolidation and mission-critical workloads, such as SAP, Oracle, Microsoft, and VDI.

Converged Technology Extensions
Dell Converged Technology Extensions provide an innovative way to expand and enhance a converged system quickly and easily by adding compute or storage outside of the original system. They are available for Cisco UCS and Dell EMC storage and support multiarray storage combinations.
Add Dell EMC Unity all flash with inline data reduction and rich data services for mixed workloads like databases, data warehouses, transactional workloads, and virtualization applications.
Add XtremIO X2 all flash for linear growth, massive I/O performance, and workload consolidation. With a scale-out design, it is ideal for data reduction and copy-friendly workflows, such as Virtual Desktop Infrastructure (VDI) and test and development environments.

#1 FOR A REASON
Delivering real business results

“First of all, it’s saving us on the maintenance and support funding. That allows us to take those remaining investment dollars and actually put them into new innovative investment.”
Chad Eckes, Executive Vice President and CFO, Wake Forest Baptist Medical Center

“Our mission to deliver a dynamic and evolving set of core services and innovative technologies essential to the citizens is critical. Dell EMC is helping the City of Virginia Beach achieve this mission by enabling us to develop and implement the best technology solutions to meet those demands.”
Matthew Arvay, former CIO, City of Virginia Beach, VA

“It provided us the flexibility we needed for both our revenue-generating mixed workloads and all-flash back end.”
Carlos Sotero, IT Director, Insight

“It’s pre-built and pre-tested, and offered us high availability, scalability, and automation to make provisioning new services faster and more efficient.”
Jonas Esko, IT Architect Manager, LKAB

“We have a small IT staff and the minimal maintenance time required allows us to work on projects that help grow our business rather than just “keep the lights on.”
Tom Nollan, Director of IT, Old Dutch Foods

“Digital transformation starts with setting the right IT foundations. You don’t just go straight to a digitally transformed business – it is a continuous journey”
Dickon Smart-Gillf, CIO Bumrungrad International Hospital
Add VMAX all-flash configurations to support your large-scale data center consolidation, diverse and heavy-transaction workloads, data warehousing, analytics, and mission-critical applications.

Add the new generation Isilon for scale-out Network Attached Storage (NAS) capacity to address the increased performance and scaling needs for file-based and data-driven applications. It’s optimized for large-scale, unstructured data, including videos, pictures, audios, texts, and genomic/mobile data.

### VxBlock Systems Specifications

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<th>VxBlock System 540</th>
<th>VxBlock System 740</th>
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<tr>
<td>Compute</td>
<td>Cisco UCS Server Chassis</td>
<td>Cisco UCS B-Series Blade Servers (including the Cisco UCS B-Series B200 M4, B260 M4, B420 M4, B460 M4 and the B200 M5) and Cisco UCS C-Series Rack Mount Servers (including the Cisco UCS C-Series C220 M4 and C220 M4)</td>
<td>Cisco UCS 2204XP/2208XP Series Fabric Extenders</td>
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<tr>
<td>Min/Max. Servers</td>
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<td>Min/Max. Chassis</td>
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<td>Min/Max. Blades</td>
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<td>Network</td>
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<td>Nexus 5548UP</td>
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<td>MDS 9148S Multilayer Fabric Switch</td>
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<td>MDS 9706 Multilayer Director</td>
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<td>Storage</td>
<td>Dell EMC Unity 350F, 450F, 550F and 650F</td>
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<td>Max Raw Storage Capacity</td>
<td>Up to 16 PB</td>
<td>320 TB</td>
<td>Up to 5 PB</td>
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<td>Virtualization</td>
<td>VMware vSphere Enterprise Plus (with VDS)</td>
<td>VMware NSX</td>
<td>Dell EMC VMAX 250F and 950F</td>
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<td>Cisco Nexus 1000V</td>
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<td>Dell EMC PowerPath/VE</td>
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